

TrueNet®

25-Pair Category 5e Riser Cable



Features:

- Verified to Category 5e standard
- 24 AWG solid copper conductors
- Lead-free, flame retardant PVC
- 100 Ohm nominal impedance

Compliances:

- UL subject 444
- (UL)-C(UL) type CMR/CMG
- ICEA S-90-661
- NEC 800 type CMR
- ETL verified TIA/EIA-568-B.2 Category 5E horizontal cable requirements

SPEC SHEET



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25-Pair Category 5e Riser Cable

Specifications

CONSTRUCTION:

Conductor:	24 AWG solid bare copper
Insulation:	HDPE
Jacket:	Flame-retardant PVC, .500" (12.7 mm) nominal O.D.

COMMON APPLICATIONS:

4/16 Mb/s Token Ring (IEEE 802.5)
 10BASE-T (IEEE 802.3)
 100 Mb/s TP-PMD
 Broadband & Baseband Video
 100BASE-T ("Fast Ethernet")
 100BASE-T4 ("Fast Ethernet")
 100BASE-TX ("Fast Ethernet")
 100VG-Any LAN (IEEE 802.12)
 52/155 Mb/s ATM (ATM Forum)
 622 Mb/s ATM (ATM Forum)
 1000BASE-T (Gigabit Ethernet)
 1 Gigabit Networking System (WGNA)

THERMAL CHARACTERISTICS:

Transport and Storage:	-10°C to 60°C
Installation:	-0°C to 50°C
Operation:	-10°C to 60°C

MECHANICAL CHARACTERISTICS:

Bend Radius:	5.0" (127 mm)
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ELECTRICAL CHARACTERISTICS:

Conductor DC Resistance @ 20°C (Max):	28.6 Ω/1000 ft (9.38 Ω/100 m)
DC Resistance Unbalance (Max):	5%
Mutual Capacitance @ 20°C (Max):	17 pF/ft (5.6nF/100 m)
Operating Voltage (Max):	300 VDC
Worst Case Cable Skew:	45 ns/100 m
Nominal Velocity of Propagation:	70%

7/07 • 104752AE 25-Pair Category 5e Riser Cable



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FREQ MHZ	Fitted Impedance Ohms	Insertion Loss dB/100m		Pair-Pair NEXT dB/100m		PSNEXT dB/100m	
	Spec	Max	Spec	Min	Spec	Min	Spec
1	100 +/- 15	2.0	2.0	71.7	65.3	69.6	62.3
4	100 +/- 15	4.0	4.1	64.1	56.3	60.8	53.3
8	100 +/- 15	5.6	5.8	57.9	51.8	56.3	48.8
10	100 +/- 15	6.3	6.5	57.2	50.3	55.2	47.3
16	100 +/- 15	8.1	8.2	54.2	47.2	51.7	44.2
20	100 +/- 15	9.2	9.3	53.1	45.8	50.0	42.8
25	100 +/- 15	10.2	10.4	48.5	44.3	46.8	41.3
31.25	100 +/- 15	11.5	11.7	50.9	42.9	48.0	39.9
62.5	100 +/- 15	16.5	17.0	46.6	38.4	44.0	35.4
100	100 +/- 15	21.3	22.0	42.5	35.3	39.9	32.3

FREQ MHZ	Return Loss dB/100m		Pair-Pair ELFEXT dB/100m		PSELFEXT dB/100m	
	Max	Spec	Min	Spec	Min	Spec
1	26.6	20.0	67.3	63.8	65.8	60.8
4	27.1	23.0	55.8	51.8	54.2	48.8
8	28.5	24.5	49.9	45.7	48.3	42.7
10	29.8	25.0	47.8	43.8	46.3	40.8
16	29.5	25.0	43.9	39.7	42.3	36.7
20	30.4	25.0	41.9	37.8	40.3	34.8
25	31.2	24.3	40.1	35.8	38.5	32.8
31.25	30.7	23.6	38.1	33.9	36.5	30.9
62.5	26.7	21.5	32.5	27.9	30.8	24.9
100	24.6	20.1	29.0	23.8	27.3	20.8

NOTE: The above listed discrete frequency electrical performance values are provided for engineering information only. Actual compliance testing is based on swept frequency measurements. The spec values are based on TIA/EIA-568-B.2 specification.

Ordering Information

Description	Catalog Number
1000 foot reel, 132 lbs (195 kg), Gray	5ETR-2524GY02

SPEC SHEET



Website: www.adc.com

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